



# CHENMKO ENTERPRISE CO.,LTD

## SINGLE-PHASE PASSIVATED SILICON BRIDGE RECTIFIER

VOLTAGE RANGE 50 - 1000 Volts CURRENT 10.0 Amperes

KBPC1005PT

THRU

KBPC1010PT

Lead free devices

### FEATURES

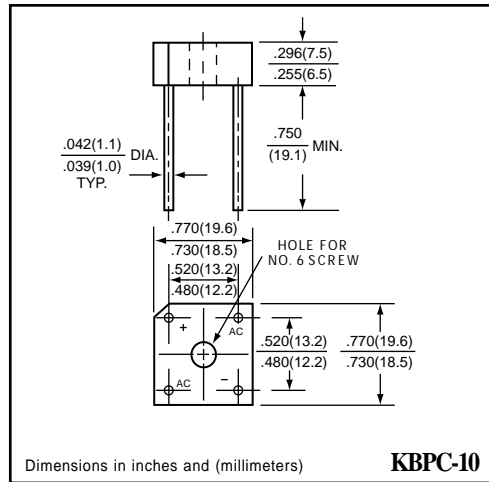
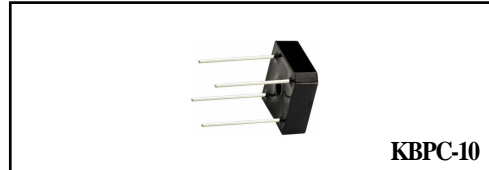
- \* Surge overload rating 200 amperes peak
- \* Low forward voltage drop
- \* Small size : simple installation
- \* Silver-plated copper leads

### MECHANICAL DATA

**Case:** JEDEC KBPC-10 molded plastic  
**Terminals:** Plated leads solderable per MIL-STD-750, Method 2026  
**Mounting position:** Any  
**Mounting:** Hole thru for # 6 screw  
**Weight:** 7.86 grams

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.  
 Single phase, half wave, 60 Hz, resistive or inductive load.  
 For capacitive load, derate current by 20%.



### MAXIMUM RATINGS ( At TA = 25°C unless otherwise noted )

RATINGS	SYMBOL	KBPC1001PT	KBPC1005PT	KBPC1002PT	KBPC1004PT	KBPC1006PT	KBPC1008PT	KBPC1010PT	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	Vdc	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Output Current TC = 50°C	Io	10.0							Amps
TC = 100°C		6.0							
TA = 50°C		6.0							
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	200							Amps
Operating Temperature Range	TJ	-55 to +125							°C
Storage Temperature Range	TSTG	-55 to +150							°C

### ELECTRICAL CHARACTERISTICS ( At TA = 25°C unless otherwise noted )

CHARACTERISTICS	SYMBOL	KBPC1001PT	KBPC1005PT	KBPC1002PT	KBPC1004PT	KBPC1006PT	KBPC1008PT	KBPC1010PT	UNITS
Maximum Instantaneous Forward Voltage at 5.0 A DC	VF	1.1							Volts
Maximum Reverse Current at rated DC blocking Voltage per element	IR	10							uAmps
@ TA = 100°C		0.2							mAmps

# RATING CHARACTERISTIC CURVES ( KBPC1005PT THRU KBPC1010PT )

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

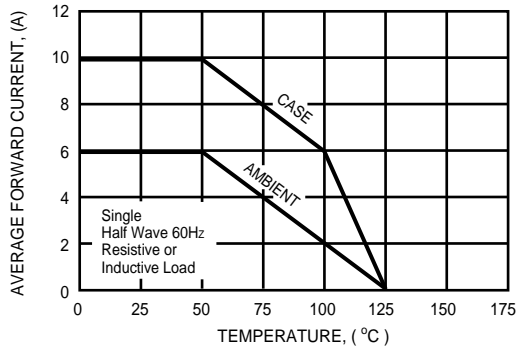


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

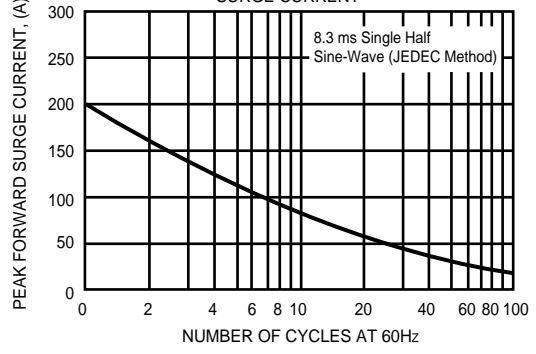


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

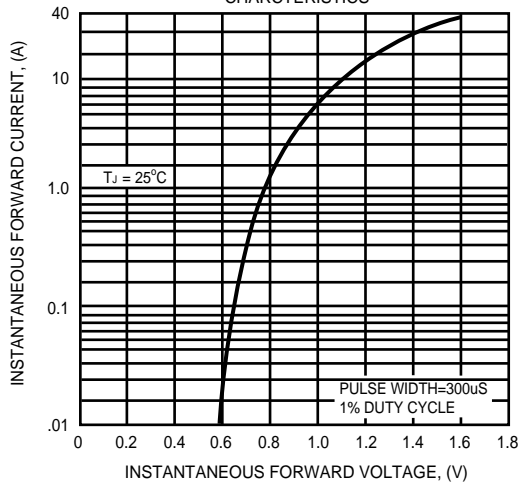


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

